DOCUMENT RESUME

ED 339 596 SE 052 409

TITLE Ground Water Education in America's Schools: A Catalog of Resource Materials for Elementary and Secondary Education Professionals.
INSTITUTION American Ground Water Trust, Dublin, OH.
PUB DATE Aug 90
NOTE 46p.
PUB TYPE Reference Materials - Directories/Catalogs (132)

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Activity Units; Computer Games; Computer Software Selection; Conservation Education; Curriculum Guides; Educational Games; Elementary Secondary Education; *Environmental Education; *Groundwater; *Learning Activities; *Resource Materials; Videotape Recordings; *Water Resources; Workbooks
IDENTIFIERS Posters

ABSTRACT

More than 13 million privately-owned wells and over 100,000 public water supply sources pump ground water to approximately 123 million Americans daily for personal, commercial, industrial, and agricultural uses. Yet, even as the nation's need for water grows, the prevailing lack of public knowledge and understanding about this resource leads to continuing, albeit unintentional, contamination, and also, to a growing attitude that all ground water is becoming unsafe, if not so, already. This catalog contains 72 resource materials which provide comprehensive ground water information in the form of videotapes, learning guides, student activities notebooks, posters, computer software programs, cartoon books, project kits, educational games, textbooks, and curriculum guides. Each resource lists a title, the appropriate grade level(s), a description including the intended use, the cost and source, and the contact address. (JJK)

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ED339596

# Ground Water Education in America's Schools

## A Catalog of Resource Materials for Elementary and Secondary Education Professionals

The American Ground Water Trust
6375 Riverside Drive
Dublin, Ohio 43017

614-761-2215

August 1990

SE 052 409

U.S. DEPARTMENT OF EDUCATION
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## Responsible Awareness of Our National Asset

America depends upon plentiful and safe supplies of ground water. More than 13 million private wells and 100,000 public supply sources pump ground water to 123 million Americans. Ground water is the source of life for vast acres of irrigated farmland. Each day, agriculture draws billions of gallons of ground water from the earth, making America the world's breadbasket.

And yet, as our nation's need for ground water grows, we discover how little we understand the resource. This lack of knowledge leads to unintentional contamination of the resource, and a growing attitude that all ground water is unsafe.

## Addressing Today's Demands and Tomorrow's Challenges

The American Ground Water Trust has served important educational roles since 1975. Today, the Trust's expanded broad-based, national program provides Americans with accurate ground water information and education.

The Trust's mandate is to conduct activities designed:

- To promote public awareness on state and national levels by objective discussion of issues relating to ground water use and contamination;
- To provide for undergraduate and graduate education in the ground water professions;
- To maintain the National Ground Water Information Center so it may continue to provide state-of-the-art information on scientific and technical developments and regulatory requirements.

The Trust's primary goal with its agenda is to make comprehensive ground water information available to industry, government, education, and to the American public.

This booklet is part of that effort. We hope you find it informative.

Kevin B. McCray, CAE
Executive Director

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Title: About Water

Grade Level(s): Not identified

Description: A coloring and activity book of simple mazes, word games and puzzles. Helps children appreciate the need for clean, abundant supplies of water. This 8-page booklet also explains the important role water companies play in meeting that need.

Notes: 1 to 24 copies are $1 each. 25 to 99 copies are 78 cents each. Catalog number: W56168.

Sources: Channing L. Bete Co., Inc.

Contact: Order Department
Channing L. Bete Co., Inc.
200 State Road
South Deerfield, Massachusetts 01373
1-800-628-7733

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Title: Adventures of the Arizona Hydroforce

Grade Level(s): Elementary

Description: This 16-page comic book focusing on water conservation includes activities such as: word scramble, crossword, short story writing, fill-ins, maze, poem composition, a song, and a membership application for the Hydroforce.

Notes: The comic book is written for people living in Arizona, but provides positive insights on water conservation for anyone.

Sources: Abracadabra Educational Entertainment

Contact: Abracadabra Educational Entertainment
P.O. Box 56274
Phoenix, Arizona 85079
602-846-4117

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Title: Agricultural Pollution Prevention

Grade Level(s): 7 - 12

Description: This software uses interactive hypertext format and more than 100 color graphics screens to show how farmers can save money and reduce pollution

by sensible uses of fertilizers, pesticides, and herbicides. It is a general introduction to an important field, prepared by real farmers.

Notes: It can be obtained at no cost by sending four high density 5.25" or 3.5" diskettes. Requires an IBM PC or compatible, MS DOS 3.0+, EGA color graphics monitor or better, 500K RAM, a mouse, and 7.0M of disk space.

Source: Bernard Engel
Agricultural Engineering
Purdue University
West Lafayette, Indiana 47907
317-494-1198

Contact: Alfred Krause
U.S. Environmental Protection Agency
230 S. Dearborn, 5WCP
Chicago, Illinois 60604
312-886-0238

==========

Title: Beyond Mudpies! - Educational Activities in Soil Science, Hydrology and Soil Conservation

Grade Level(s): 1 - 8

Description: A modular presentation on the interaction of water and soil. The hydrology module examines the relationships between water and soil and the water table. There are several student activities, including activities for outdoors.

Notes: The handbook is available for $7, plus $3 for postage.

Source: Hillsborough County Conservation District

Contact: Jo-Ann Turner
District Manager
Hillsborough County Conservation District
Chappell Professional Center, Route 13 South
Milford, New Hampshire 03055
603-673-2409

==========

Title: California's Water Problems

Grade Level(s): Middle School Level

Description: A packet of materials, including a role-playing strategy, that describe California's water problems.

Notes: The price is $15 per set.

Sources: Water Education Foundation

Contact: Water Education Foundation
717 K Street, Suite 517
Sacramento, California 95814
916-444-6240

==========

Title: California's Water Story

Grade Level(s): Upper elementary

Description: A packet of materials, including a film strip, that describe California's water resources.

Notes: The price is $15 per set.

Sources: Water Education Foundation

Contact: Water Education Foundation
717 K Street, Suite 517
Sacramento, California 95814
916-444-6240

==========

Title: Caring for California's Water

Grade Level(s): 4

Description: A multi-lesson course of instruction that explore water issues and encourage students to contact organizations to learn more about water topics.

Notes: Was in draft form as of April 17, 1991.

Source: Lake County Office of Education

Contact: Olga N. Clymire
Environmental Education Consultant
Lake County Office of Education
1152 S. Main Street
Lakeport, California 95453
707-263-7249

==========

Title: Children's Groundwater Festival Teacher Packets

Grade Level(s): 4 - 6

Description: The Festival is an event for students and teachers to learn about ground water quality, quantity and uses. Awareness of ground water issues is stressed through hands-on activities such as computer games, magic shows, displays and a film room, as well as printed materials. The Festival is held at Central Community College in Grand Island during the spring. A resource room is available for teachers.

Notes: The Foundation has sponsored several successful festivals.

Source: Nebraska Groundwater Foundation

Contact: Nebraska Groundwater Foundation
P.O. Box 2558
Lincoln, Nebraska 68502
402-423-7155

==========

Title: Children's Groundwater Festival Video

Grade Level(s): All

Description: This video offers a glimpse at the learning activities, philosophy and incredible success of the Nebraska Groundwater Festival.

Notes: A seven-minute video produced by Bates Video, Lincoln, Nebraska.

Contact: Nebraska Groundwater Foundation
P.O. Box 2558
Lincoln, Nebraska 68502-0558
402-423-7155

==========

Title: Classroom GEMS (Groundwater Education in Michigan)

Grade Level(s): K - 12

Description: Classroom GEMS provides hands-on, classroom-ready activities for kindergarten through 12th grade students. The curriculum, viewed as a whole, includes activities that introduce, develop and reinforce concepts related to ground water. Each of the activities in Classroom GEMS corresponds to one or more of these questions: Why is Earth called the water planet?; how is water stored and moved; where is water found

underground; how does water move underground; what natural factors influence ground water quality; how do people affect ground water; how does the quality of ground water affect life on earth?

Notes: Classroom GEMS is a project of SEE - North (Science and Environmental Education - North), under subcontract from the University of Michigan Biological Station Regional GEM Center. The work group that developed and reviewed the curriculum is composed of ground water specialists, curriculum developers and classroom teachers from across Michigan. Classroom GEMS materials are available through one-day workshops. Classroom GEMS activity manuals are $20 per grade level (lower elementary, upper elementary, junior/middle school, high school). Classroom GEMS posters are $5 each.

Source: Groundwater Education in Michigan program funded by the W.K. Kellogg Foundation.

Contact: Classroom GEMS
SEE - North
University of Michigan - Biological Station
Pellston, Michigan 49769
616-539-8406

==========

Title: Clean Water Resource Packet

Grade Level(s): All

Description: This 800-page, three-ring notebook bound guide includes sections on activities, curriculum, issues backgrounders, educational resources, and local county water plans for the state of Minnesota. It contains a copy of Ground Water in America's Schools.

Notes: Without the videotapes the packet describes, the manual is $125.

Source: Minnesota Extension Service

Contact: Roger Wilkowske
Water Quality Extension Agent
Minnesota Extension Service
University of Minnesota
South Central District Office
Southern Experiment Station
Waseca, Minnesota 56093
507-835-3422

==========

Title: Dripial Pursuit

Grade Level(s): Not available

Description: Dripial Pursuit is a 200 question water-natural resources trivia game that teaches everything about water, from the hydrologic cycle to sea tides. Dripial Pursuit questions are rated in four levels of difficulty. The game is packaged as a playing card deck.

Notes: The game is $5.

Contact: Nebraska Groundwater Foundation
P.O. Box 2558
Lincoln, Nebraska 68502-0558
402-423-7155

==========

Title: Earth Book for Kids

Grade Level(s): Ages 8 - 12

Description: Earth Book for Kids offers children a wide variety of ways to learn about the environment while having fun. It is filled with ideas for art activities, craft projects, experiments, explorations, and experiences that will encourage children to enjoy the environment. Earth Book covers water pollution, resource conservation, landfills, pesticides and many other related environmental topics.

Notes: The softbound, 184-page book is 9" x 8 1/4". Each copy is $9.95, plus $3 for postage.

Source: The Learning Works

Contact: The Learning Works
P.O. Box 6187
Santa Barbara, California 93160

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Title: Earth - The Water Planet

Grade Level(s): 6 - 10

Description: Designed for middle-level earth science teachers, this book explains how to use readily

available materials and a variety of instructional methods to investigate how water shapes our planet and our daily lives. Included are hands-on experiments challenging you to purify swampwater, conservation-oriented activities showing how much water is wasted by a dripping faucet, and a role-playing activity in which students present opposing arguments at a town meeting. Appropriate for both inservice workshop and classroom use, the activities are close-to-life and fun, designed to heighten environmental awareness, and demonstrate that there is indeed water, water everywhere on earth.

Notes: This 1989 publication is 204 pages and may be purchased for $16.50, plus $2 for handling.

Source: National Science Teachers Association

Contact: National Science Teachers Association
Publications Department
1742 Connecticut Avenue, NW
Washington, DC 20009-1171
202-328-5800

==========

Title: Earthword

Grade Level(s): Not available

Description: An environmental game printed on recycled paper, Earthword contains 800 multiple-choice questions about air, water, forests, animals, global warming, recycling, and other issues.

Notes: The games are $19.95 each, plus $3.50 for shipping.

Source: Earthword

Contact: Earthword, Inc.
104 Church Street
Keyport, New Jersey 07735

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Title: Educational Poster Series

Grade Level(s): K - 12

Description: These three posters can help teach children and adults the vital water "facts of life." The posters attractively illustrate basic water

processes and answer commonly asked questions. The posters are a valuable teaching tool and perfect for decorating the classroom in a water theme. The set includes three posters in full color with black and white bonus posters on the reverse sides. The set includes: A Water System; A Treatment Plant; Groundwater Systems; The Water Cycle; Water Careers; and Water Conservation.

Notes: These 28" x 22" posters are $6.50 per set.

Sources: The American Water Works Association

Contact: The American Water Works Association
6666 W. Quincy Avenue
Denver, Colorado 80235
303-794-7711

==========

Title: Educational Student Handout Set

Grade Level(s): Elementary

Description: Identical to the Educational Poster Series (see description above) these informative inserts fit conveniently in students' looseleaf notebooks. They're designed to educate and motivate today's student about the basics of the water cycle and water treatment. Like the posters, the handouts feature four-color art on one side and black and white on the reverse side.

Notes: Three, 2-sided handouts, 8 1/2" x 11", 3-hole punched for insertion in looseleaf notebook. Sold in classroom sets of 30 (90 total sheets). $16 per set.

Sources: The American Water Works Association

Contact: The American Water Works Association
6666 W. Quincy Avenue
Denver, Colorado 80235
303-794-7711

==========

Title: Environmental Education in Action I, II, III, IV

Grade Level(s): Instructor background.

Description: A series of reprints from Soil Conservation Magazine on the effectiveness of various environmental education programs.

Source: Soil Conservation Service

Contact: Soil Conservation Service
U.S. Department of Agriculture
P.O. Box 2890
Room 0054-S South Building
Washington, DC 20013
202-447-6009

==========

Title: Environmental Scientist Kit

Grade Level(s): Ages 8 and Up

Description: Children can discover how toxins and pollutants can impact on their home, yard and neighborhood. The portable lab fits in a hip pouch and includes apparatus for radon testing.

Source: National Wildlife Federation catalog

Contact: National Wildlife Federation
1412 16th Street, N.W.
Washington, DC 20036
202-797-6800

==========

Title: Field Manual for Water Quality Monitoring: An Environmental Education Program for Schools (4th edition)

Grade Level(s): 8 - 9

Description: This is both a laboratory manual and a textbook for water quality monitoring. Written at an 8th or 9th grade level, with additional commentary for teachers, the 234-page spiral-bound manual covers chemical monitoring, benthic-organism monitoring, computer networking, and land-use issues, and includes instructions for performing water quality tests (dissolved oxygen, fecal coliform, etc.)

Notes: The manual is $9.95.

Source: The manual was written by William Stapp and Mark Mitchell and published by Thomson-Shore, Dexter, Michigan.

Contact: William B. Stapp
2050 Delaware Street

16

Ann Arbor, Michigan 48103
313-761-4854

==========

Title: Gee-Wow! Adventures in Water Education

Grade Level(s): K - 3

Description: This classroom tested curriculum meets Michigan science, health and social studies objectives. It includes 28 low- and no-cost hands on activities about the water cycle, ground water, pollution, recycling, and solid waste.

Notes: Gee-Wow! staff will also visit classrooms on a fee basis. Package is $12.

Source: The Ecology Center

Contact: The Ecology Center
417 Detroit Street
Ann Arbor, Michigan 48104
313-995-5888

==========

Title: Good Planets are Hard to Find!

Grade Level(s): Ages 8 and Up

Description: A 44-page, full-color book that "promotes the belief that each one of us can make a difference to our planet. It not only gives information about the problems facing the ecosystem, but also offers a large range of activities geared to solving them. Among the concepts explored are acid rain, drought, geothermal energy, hazardous waste, landfills, pesticides, toxic wastes, and watersheds.

Notes: One to 9 copies are $5 each, 10 to 24 copies are $4.50 each, 25 - 99 copies are $4 each. Larger quantities also earn discounts.

Source: Namchi United Enterprises

Contact: Namchi United Enterprises
P.O. Box 33852
Station D
Vancouver, British Columbia V6J 4L6
CANADA
604-736-6931

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Title: Ground Water

Grade Level(s): 7 - 12

Description: A part of the IBM Earth Science Series, this software program has four parts: 2 tutorials, a true-false quiz, and a matching quiz. See Hydrologic Cycle description.

Notes: Available in either 3 1/2" or 5 1/4" diskettes. Requires CGA or better. The cost is $57 for either format.

Source: IBM

Contact: EISI
2225 Grant Road
Los Altos, California 94024
1-800-955-5570

==========

Title: Groundwater: A Vital Resource Student Activities

Grade Level(s): 3 - 12

Description: A 65-page booklet of 23 student activities for grades 3 through 12. The activities are divided by, The Water Cycle; Water Distribution in Soils; Water Quality; and Community Impacts. Specific ground water concepts include: the hydrologic cycle; porosity and permeability; wells and ground water; coliform bacteria determination; nitrates in ground water; ground water rights; and pollution of ground water.

Notes: Single copies are available from the Tennessee Valley Authority or The American Ground Water Trust.

Source: Cedar Creek Learning Center and the Tennessee Valley Authority

Contact: Water Quality Department Library
Tennessee Valley Authority
270 Haney Blvd.
Chattanooga, Tennessee 37402-2801
615-751-7338

==========

Title: Ground Water Education System

**Ground Water in America's Schools**

Grade Level(s): 7 - 12

Description: This interactive hypertext-based program includes dozens of color screens to educate the user about the nature of ground water and the principles of ground water protection. All important concepts are backed up with definitions or interactive graphics. It includes a newspaper clipping file and followup quiz that can be updated or modified by the user.

Notes: It can be obtained at no cost by sending one high density 5.25" or 3.5" diskettes. Requires an IBM PC or compatible, MS DOS 3.0+, EGA color graphics monitor or better, 600K RAM, and a mouse is helpful. It may not run in conjunction with some memory-resident programs.

Source: Bernard Engel
Agricultural Engineering
Purdue University
West Lafayette, Indiana 47907
317-494-1198

Contact: Alfred Krause
U.S. Environmental Protection Agency
230 S. Dearborn, 5WCP
Chicago, Illinois 60604
312-886-0238

==========

Title: Groundwater: Illinois Buried Treasure - Education Activity Guide

Grade Level(s): K - 12

Description: The 57-page guide to Illinois ground water includes activities such as: the water cycle, how different soils affect the movement of water, porosity and permeability, purifying water, decision-making and more. Featured is Water Monopoly, a board game of water issues. A conceptual framework outline is also included. Excellent illustrations can be made into handouts or overheads.

Notes: A number of brochures are packaged with the guide.

Source: Illinois Department of Energy and Natural Resources

Contact: Harry Hendrickson
Groundwater Education Coordinator

Illinois Department of Energy and Natural Resources
325 W. Adams Street
Room 300
Springfield, Illinois 62704-1892
217-785-2800

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Title: Ground Water Module - Denver Earth Science Project

Grade Level(s): 8th and 9th

Description: A five-day curriculum for ground water in Colorado, including four days of in class instruction and one day for a field trip. Includes student manuals, teacher guides, videos, models, classroom experiments, computer software, field guides, and maps.

Notes: This project was funded by a Denver Foundation grant.

Source: Denver Earth Science Consortium

Contact: Gary L. Baughman, Ph.D.
Director
Office of Special Programs and Continuing Education
Colorado School of Mines
Golden, Colorado 80401
303-273-3321

==========

Title: Groundwater Primer for Iowa Issues

Grade Level(s): Not for general classroom distribution.

Description: A 24-page booklet which summarizes the basics about Iowa's aquifers, ground water quality, and different types of contamination, including: fertilizers and pesticides, landfills, leaking underground storage tanks, direct paths of contamination and manure and sewage treatment. The primer is designed for teachers, other adults or students who are researching one of these topics.

Source: Iowa Department of Natural Resources

Contact: Iowa Department of Natural Resources
Wallace Building
Des Moines, Iowa 50319-0034
515-281-5135

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Title: Ground-Water Protection Curriculum Guide

Grade Level(s): 4 - 12

Description: The material provided in this curriculum guide is targeted for use by teachers in all disciplines from grade four through high school. Elementary-grade teachers are encouraged to modify the curriculum for use in their classrooms. The curriculum is a series of topic lessons built around a framework of central ground water concepts that are listed in the guide. Elements of the topic lessons include the objectives, background information for the teacher, vocabulary lists, suggested teaching strategies, student activities, recommended graphic materials, and discussion questions.

The appendix includes core competencies and key skills addressed by this curriculum guide. A role-playing game is also featured.

Also included in the packet is a colorful, 8-page brochure, "Missouri's Hidden Waters," and a large poster on household hazardous wastes.

Notes: The guide is provided at no cost to Missouri teachers.

Source: Missouri Department of Natural Resources
Missouri Department of Elementary and Secondary Education

Contact: Department of Natural Resources
Office of Public Information
P.O. Box 176
Jefferson City, Missouri 65102
314-751-3443

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Title: Groundwater Protection Through Prevention

Grade Level(s): 9 - 12

Description: The materials were developed to help people understand the relationships between ground water quality and agricultural systems. The materials were designed for use in agricultural science, technology and marketing classes in Iowa high schools. However, the materials are appropriate for use in other classes in middle, secondary and post-secondary schools, and with

youth and adults in nonformal settings. Topics covered include: Recognizing ground water concerns; describing the water connection; locating direct connections; managing nitrogen fertilizers; managing agricultural pesticides; managing underground tanks and pipelines; managing natural fertilizers; managing urban fertilizers and pesticides; careers; and more. A number of videos are included, and a manual for the use of an optional ground water flow model.

Notes: This printed curriculum and the "Groundwater on the Move" and "Operation and Maintenance: The Groundwater Flow Model" videotape (two programs) is available from the Iowa Association for Vocational Instructional Materials Center, 208 Davidson Hall, Iowa State University, Ames, Iowa 50011, 515-294-6673. Cost of the printed materials is $15, plus shipping. Cost of the videotape is $17.50, plus shipping.

Source: Iowa State University

Contact: Eldon C. Weber
U.S. Soil Conservation Service
201 Curtiss Hall
Iowa State University
Ames, Iowa 50011
515-294-4777

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For those Americans who use ground water from wells - and wish they knew more about their water supply - a new toll-free information line has the answers.

New from The American Ground Water Trust, the toll-free number - 1-800-423-7748 - offers facts and figures about three broad areas: ground water quality, ground water protection and water wells.

Title: Groundwater Resources and Educational Activities for Teaching (GREAT)

Grade Level(s): 7 - 9

Description: It includes a three-ring notebook of six units, a set of posters and a ground water model. The units are: 1) Hydrogeology; 2) Fertilizers and Pesticides; 3) Abandoned Waste Sites and Landfills; 4) Leaking Underground Storage Tanks and Hazardous Materials Handling and Transportation; 5) Direct Paths of Contamination; and 6) Land-applied Wastes and Sewage Treatment. The poster set includes six posters: one for each unit. The ground water model is a plexiglass box 12" x 6" x 2". The clear, plastic model can be filled with aquarium gravel and confining layers. Students can then use it to see how ground water moves, impurities enter and ground water becomes contaminated.

Notes: The GREAT notebook is $8.00. These materials have been used in teacher workshops.

Source: Iowa Department of Natural Resources
Iowa Department of Education

Contact: Gail George
Education Specialist
Iowa Department of Natural Resources
Wallace State Office Building
Des Moines, Iowa 50319
515-281-5135

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Title: Groundwater Study Guide

Grade Level(s): 6 - 9

Description: Students will become familiar with the water cycle, investigate groundwater movement, and become familiar with Wisconsin's major aquifers. Students can also investigate groundwater contamination, develop an understanding of water treatment and wastewater treatment, and build an appreciation of the importance of water conservation. Students also learn of groundwater use rights and develop their own solutions to a hypothetical groundwater contamination problem.

The Guide includes background information, suggested grade level and subjects, a

correlation to Wisconsin Department of Public Instruction subject area objectives, detailed activities and suggestions for activity extensions, a glossary of groundwater terms and a list of additional groundwater resource materials. In addition to the study guide, the packet includes: copy-ready student activity sheets and overhead masters, one large and ten small Groundwater and The Water Cycle Posters, and a special ground water issue of Wisconsin Natural Resources Magazine.

Notes: The cost of the groundwater packet is $10, plus $.50 tax.

Source: Wisconsin Department of Natural Resources

Contact: Wisconsin Department of Administration
Printing and Publications Section
Document Sales and Distribution Unit
P.O. Box 7840
Madison, Wisconsin 53707-7840

==========

Title: Groundwater Treatment Unit - The Water Environment Curriculum Program

Grade Level(s): 5 - 9

Description:

The Groundwater Video Adventure

The often puzzling concept of ground water is graphically explained using a video game format. Dino Sorrus, an animated water quality spokes-dinosaur, is the game master of this video where a live-action student gains points by preventing ground water pollution. In the game, the player prevents ground water pollution from industrial, agricultural, and private residential sources. However, students learn preventing ground water pollution is not just a game - it's something they need to do in their day-to-day lives.

The Groundwater Video Adventure - Student Resource Guide

The game continues with this colorful and informative guide. Picking up on the major themes presented in the video, this guide reinforces and expands upon the concepts of how

ground water becomes polluted, the challenges of cleaning it, and the students' role in protecting our largest water supply.

The Groundwater Video Adventure - Teacher's Resource Guide

This step-by-step guide shows educators how and why water quality should be taught. Presents suggestions for "wetting" students' appetites to learn about ground water quality. Additional activities for in-class use are given to reinforce the basic concepts presented in the video. Includes glossary of terms used in video and a sample test.

Notes: Package consists of one VHS video, one teacher's guide, and 20 student guides. The package is $49, the student guide is $1.25, and the teacher's guide is $9.

Source: Water Pollution Control Federation

Contact: Water Pollution Control Federation
601 Wythe Street
Alexandria, Virginia 22314
800-666-0206

==========

Title: Hydrologic Cycle

Grade Level(s): 7 - 12

Description: A part of the IBM Earth Science Series, this software program has four parts: 2 tutorials, a true-false quiz, and a matching quiz. See Ground Water description.

Notes: Available in either 3 1/2" or 5 1/4" diskettes. Requires CGA or better. Cost is $57 for either format.

Source: IBM

Contact: EISI
2225 Grant Road
Los Altos, California 94024
1-800-955-5570

==========

Title: It's Found Underground: Groundwater, Our Buried Treasure

**Ground Water in America's Schools**

Grade Level(s): 4 - 7

Description: This 28-minute videotape production entertains students as it instills new concepts about surface water and ground water, particularly in the Great Lakes region. "Drip," a water droplet, is a recurring character who adds charm, humor and intelligence to the video. Young actors and actresses play other leading roles. The video has been divided into four segments: three for students, one for educators. The segments are: Groundwater: Our Buried Treasure; Water Conservation and Pollution; Solid Waste and Groundwater; and the educator segment. The final segment demonstrates how educators can best use the video to teach students, and gives examples of some projects that educators can suggest to students.

Notes: The video is $39.95, plus $3 for handling and shipping.

Source: The Ecology Center

Contact: The Ecology Center
GEE-WOW! Program
417 Detroit Street
Ann Arbor, Michigan 48104
313-761-3186

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Title: Karst Curriculum Guide

Grade Level(s): 4 - 8

Description: The guide is meant to assist educators in finding and utilizing materials for their classroom. The guide is divided into two main subject areas, Cave and Karst Resource Materials and Ground Water Resource Materials (the ground water section is a reprint of Ground Water in America's Schools).

Notes: The guide contains both descriptions of available resource materials, as well as actual resource materials ready for use. Cost information was unavailable.

Source: American Cave Conservation Association

Contact: Judy Peterson
Education Director
American Cave Conservation Association

P.O. Box 409
Horse Cave, Kentucky 42749
502-786-1466

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Title: Learning About Your Environment

Grade Level(s): Middle and Upper Elementary

Description: A 16-page cartoon booklet with word scrambles, crossword puzzles, maps, bingo and other student activities. Concepts covered include the role of natural disturbances, man-made actions, recycling, waste control, environmental impacts, and sources of pollution.

Notes: The teacher guide is free. Activity booklets are 96 cents each for orders of between 25 (minimum) to 49 copies.

Sources: The Culver Company

Contact: The Culver Company
Danvers House
130 Centre Street
Danvers, MA 01923
1-800-428-5837

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Title: Let's Learn About Using Water Wisely

Grade Level(s): Pre-teens

Description: This information and activities book (8 pages) uses lively graphics and challenging puzzles and games to teach preteens about water's importance to life on earth, the water cycle, and how families use water in and around the home. Youngsters learn why wise water use is essential if we're to have sufficient future supplies of clean water.

Notes: 1 to 24 copies are $1 each. 25 to 99 copies are 78 cents each. Catalog number: W56325.

Sources: Channing L. Bete Co., Inc.

Contact: Order Department
Channing L. Bete Co., Inc.
200 State Road
South Deerfield, Massachusetts 01373
1-800-628-7733

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Title: List of Audiovisual Aids on Solid Waste Management

Grade Level(s): Instructor background.

Description: Films, videos, slides and other materials.

Source: University of Wisconsin Extension Service
Room 216, Agriculture Hall
Madison, Wisconsin 53706
608-262-0020

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Title: "Major" Rivers

Grade Level(s): 4

Description: Major Rivers and his trusty horse Aquifer teach water concepts relevant to the state of Texas. The program consists of 10 lessons, requiring approximately 30-45 minutes of instruction each day. Suggestions for optional enrichment activities are included so you can expand the program as desired. Students learn to: identify steps in the water cycle, identify basic facts about Texas' water supply, recognize typical household water use, and identify water conservation techniques. The kit includes a teacher guide, video tape, poster, program record sheet, and 25 copies of: student booklet, pretest, posttest, home information leaflet, and Major Rivers sticker.

Source: Lower Colorado River Authority

Contact: Educational Development Specialists
5505 East Carson Street
Suite 250
Lakewood, California 90713
213-420-6814

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Title: Mister Rogers' Activities for Young Children About the Environment and Recycling

Grade Level(s): Preschool - 1

Description: This 30-minute video of Mister Rogers' Neighborhood episode #1617, discusses recycling. It was part of a week-long 1990 series entitled, "Mister Rogers Talks About the Environment."

A 21-page booklet accompanies the video. The booklet contains recycling activities, nature activities, and activities for leftover food. It also contains discussion guides and songs from the program.

Source: Family Communications, Inc.

Contact: HDR Engineering Inc.
8404 Indian Hills Drive
Omaha, Nebraska 68114-4049
402-399-1010

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Title: My Book About Water

Grade Level(s): Not identified

Description: A lively "Elephant" leads young readers through an exploration of where water comes from, how it enters and leaves the home, and all the things we use it for. These fun coloring pages are a great way to teach youngsters to turn off taps, save water, and use it wisely.

Notes: 1 to 24 copies are $1 each. 25 to 99 copies are 78 cents each. Catalog number: W56457.

Sources: Channing L. Bete Co., Inc.

Contact: Order Department
Channing L. Bete Co., Inc.
200 State Road
South Deerfield, Massachusetts 01373
1-800-628-7733

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Title: Our Environment Videodisc

Grade Level(s): 5 - 12

Description: The Our Environment videodisc contains thousands of still images and motion sequences concerning environmental problems facing modern society. A caption frame explains each video picture. Our Environment is designed to be played on a simple videodisc player and manipulated by a hand-held remote control. The video images can be shown on an ordinary video monitor or projected onto a large screen. Using a computer, the disc can also serve as a foundation for interactive computer-based instruction.

There are four broad sections to the videodisc: 1) Global overviews of physical and human geography, a general model for understanding environmental problems, and a history of environmental impact; 2) Operation of, and human impacts on, the earth's four spheres -- air, water, land, and organisms; 3) Important environmental problems --acid rain, species extinction, soil erosion, nuclear radiation, and more; and 4) Visual Glossary - defines and illustrates more than a thousand environmental concepts and terms.

Notes: Funded by the U.S. Department of Education

Source: Department of Geography and Geology
University of Wisconsin - Stevens Point

Contact: Thomas Detwyler
Project Director
University of Wisconsin - Stevens Point
Dept. of Geography and Geology
Stevens Point, WI 54481
715-346-4177

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Title: Our World of Water

Grade Level(s): Middle and Upper Elementary

Description: A 16-page cartoon activity book and 4-page Discussion Guide for teachers. Includes activities such as word scrambles; problem solving; water vocabulary; mathematics; bingo; and word searches. Water concepts covered include ground water, surface water, water treatment, water use and conservation, and pollution.

Notes: Teacher guides are free. Activity books are 96 cents each for quantities of between 25 (minimum) to 49.

Sources: Culver Company

Contact: The Culver Company
Danvers House
130 Centre Street
Danvers, MA 01923
1-800-428-5837

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Title: Outlook on Groundwater

Grade Level(s): 5 - 12

Description: Includes information on hydrogeology, contaminating activities of humans, integrated farm management, and health risks of toxic chemicals found in ground water.

The fifth through 12th grades are targeted for these materials. The subjects to be included range from general science, biology and chemistry, to vocational agriculture, home economics, and industrial arts.
The University of Northern Iowa has conducted one-week summer workshops for teachers using these materials.

Notes: A five-year plan, the Iowa Ground Water Education Strategy, has been developed to provide direction for ground water education in Iowa schools, coordinate the efforts of a variety of interest groups, and identify needs and basic criteria for development of educational materials and in-service training sessions.

Source: Iowa Department of Natural Resources

Contact: Gail George
Iowa Department of Natural Resources
Wallace State Office Building
Des Moines, Iowa 50319
515-281-5135

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Title: Principles of On-Site Wastewater Treatment

Grade Level(s): Secondary

Description: This instructional program uses 80 color graphic screens and some animation to teach the basics of on-site treatment (septic tanks, drainfields, mounds, water conservation, etc.). Main menus include: principles of treatment, design and siting, soil basics and water conservation.

Notes: IBM PC or compatible, MS DOS 3.0+, EGA color graphics monitor or better. Can be obtained at no cost when you provide 2 high density 5.25" or 3.5" diskettes.

Source: Matt Stuve

Agricultural Engineering
Purdue University
West Lafayette, Indiana 47907
317-494-1198

Contact: Alfred Klause
U.S. Environmental Protection Agency
230 S. Dearborn, 5WCP
Chicago, Illinois 60604
312-886-0246

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Title: Private Water Systems

Grade Level(s): Secondary

Description: This software uses interactive hypertext format and many dozens of color screens to provide a complete minicourse in the design and construction of private drinking water systems (wells and piping). Major menu items include water quantities required, water pumps, systems controls, design considerations, and piping. This software is useful for farmers, engineers, cooperative extension services, high school through college students, sanitarians, environmental professionals, and homesteaders. Equivalent to a 200-page book that takes you by the hand and teaches you.

Notes: IBM PC or compatible, MS DOS 3.0+, EGA color graphics monitor or better, 500K RAM, 3.0M of disk space. Can be obtained at no cost when you provide 3 high density 5.25" or 3.5" diskettes.

Source: Bernie Engel
Agricultural Engineering
Purdue University
West Lafayette, Indiana 47907
317-494-1198

Contact: Alfred Klause
U.S. Environmental Protection Agency
230 S. Dearborn, 5WCP
Chicago, Illinois 60604
312-886-0246

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Title: Project Learning Tree

Grade Level(s): K - 12

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Description: This is an interdisciplinary environmental education program that uses the forest as a "window" into the natural world. Nearly 200 activities, with information on how to use them, are contained in K-6 and 7-12 activity guides. Used in 49 states and three foreign countries, Project Learning Tree has reached more than 150,000 educators and 7 million students since its beginning in 1977. Although participants learn about forest and trees, activities can be used in teaching many other subjects.

Source: American Forest Foundation
Western Regional Environmental Education Council

Contact: Project Learning Tree
1250 Connecticut Avenue, N.W.
Suite 320
Washington, DC 20036

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Title: Project Water Science

Grade Level(s): Secondary

Description: Description unavailable at press time.

Notes: The price is $15 per set.

Sources: Water Education Foundation

Contact: Water Education Foundation
717 K Street, Suite 517
Sacramento, California 95814
916-444-6240

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Title: Project Water Works

Grade Level(s): 6 - 12

Description: This software program is designed to teach students in grades 6 through 12 about water science, including chemistry, water management, ecology, and political issues surrounding water use and conservation. The program encourages students to use critical thinking, reasoning, and science skills for application to real-world issues, such as water management and conservation. The program has colorful graphics, on-screen science experiments, and positive reinforcement messages.

The Project Water Works menu includes the following programs:

Journey to Earth - Students probe the surface of the earth via spacecraft in search of fresh water resources.

Water Labs - Students are presented with a variety of observable phenomena, such as snow melting, engines overheating, and water freezing.

Hydrologic Cycle - The student travels 40,000 meters above the earth's surface to locate water-related problem areas.
Water Management - Explores water conservation measures, water management principles, and political concerns.

The program operates on Apple II Plus (64K), Apple IIe, or Apple IIc computers with a color or monochrome monitor, single disk drive. The 90-page workbook includes a series of activities, experiments, and water-related projects that supplement the computer program.

Notes: The package is $25, although a free demonstration disk is available.

Sources: The American Water Works Association

Contact: The American Water Works Association
6666 W. Quincy Avenue
Denver, Colorado 80235
303-794-7711

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Title: Project Wet

Grade Level(s): unavailable at press time

Description: unavailable at press time

Notes: unavailable at press time

Source: North Dakota Department of Natural Resources

Contact: North Dakota Department of Natural Resources
State Office Building
900 East Blvd.
Bismarck, North Dakota 58505
701-224-4940

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Title: Project Wild

Grade Level(s): K - 12

Description: Project Wild is an interdisciplinary educational supplement with a wildlife theme. It includes separate guidebooks of 81 activities for elementary teachers and 87 activities for secondary use. Another activity text entitled Aquatic Project Wild contains 40 activities related to aquatic environments. Project Wild helps teachers incorporate concepts related to people, wildlife and environment into all major school subjects and skill areas. It is widely used in 48 states and Canada. No special background knowledge or equipment is needed. Project Wild activities provide everything needed including: objectives, method, background information, step-by-step instructions and ideas for extensions.

Source: Western Association of Fish and Wildlife Agencies
Western Regional Environmental Education Council

Contact: Dr. Cheryl Charles
Project WILD
Salina Star Route
Boulder, Colorado 80302
303-444-2390

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Title: Protecting Groundwater: A Manual for Instructors

Grade Level(s): Instruction background.

Description: This 24-page booklet is designed to provide the agricultural vocational instructor an overview of ground water topics. Chapters are titled: Groundwater; Pesticide Contamination of Groundwater; Applicator Practices; Health Effects of Groundwater Contamination; and Laws and Regulations.

Source: Ohio Cooperative Extension Service

Contact: Ohio Cooperative Extension Service
The Ohio State University
2120 Fyffe Road
Columbus, Ohio 43210
614-292-6181

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Title: Puddle Pictures

Grade Level(s): Not available

Description: Puddle Pictures teaches about water related objects, names and concepts by making participants draw pictures. The game is packaged as a playing card deck.

Notes: The game is $5.

Contact: Nebraska Groundwater Foundation
P.O. Box 2558
Lincoln, Nebraska 68502-0558
402-423-7155

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Title: Residential Water Conservation Techniques

Grade Level(s): Junior High, Senior High

Description: This program uses more than 100 color graphic screens and some animation to show effective ways to save water inside and outside the house. Major menu items include efficient toilets, showerheads, faucets, leak detection, water efficient lawn care and gardening, car washing, and pool operation.

Notes: IBM PC or compatible, MS DOS 3.0+, EGA color graphics monitor or better, 500K RAM, 3.0M of disk space. Can be obtained at no cost when you provide 1 high density 5.25" or 3.5" diskette.

Source: Micahel J. Blank.
Agricultural Engineering
Purdue University
West Lafayette, Indiana 47907
317-494-1198

Contact: Alfred Klause
U.S. Environmental Protection Agency
230 S. Dearborn, 5WCP
Chicago, Illinois 60604
312-886-0246

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Title: Sandcastle Moats and Petunia Bed Holes: A Book About Groundwater

**Ground Water in America's Schools**

Grade Level(s): 7 - 12

Description: This colorfully illustrated 29-page booklet explains the major ground water concepts in easily understood terms. For example, it explains the water table by way of the illustration of the moat around a beach sandcastle being filled with water, but the hole dug by the family dog in the petunia bed is not filled. The five units of this book are: where's the ground water?; how does it travel?; what's in the ground water; Virginia's regions; and what we can do to help. There are several experiments that relate to the text.

Notes: Additional copies, while the supply lasts, may be obtained from the Virginia Water Resources Research Center. Single copies are provided free to persons and organizations within Virginia. For those out-of-state, the charge is $8 a copy if payment accompanies the order, or $10 a copy if billing is to follow.

Source: Virginia Water Resources Research Center.

Contact: Virginia Water Resources Research Center
Virginia Polytechnic Institute and State University
617 N. Main Street
Blacksburg, Virginia 24060-3397

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Title: Saving Water - The Conservation Unit of The Water Environment Curriculum

Grade Level(s): 5 - 9

Description:

Saving Water - The Conservation Video

Imagine a visit to a museum, set sometime in the future. Dino Sorrus, the museum's exhibit curator, explains how all the earth's water, except for one small vial, has been wasted or polluted beyond use. Through computer graphics and animation students can travel to the future to see what can and might happen -unless. Students also learn what they can do today.

Saving Water - The Student Resource Guide

This colorful guide takes students from the "why" to the "how" of water conservation. Re-emphasizing the importance of water conservation, it expands upon ways students can

help save water. Designed for grades 5 to 9, this guide blends reading materials, full-color illustrations, and simple activities on conserving water.

Saving Water - The Teacher's Resource Guide

Bringing water conservation from the abstract to a day-to-day activity is the focus of this guide. The emphasis is on activities and learning by doing. Over a dozen activities, answers to often asked questions, and a complete glossary give educators the information needed to help students understand and appreciate their role in protecting water supplies.

Notes: One package consists of one VHS video, one teacher's guide, and 20 student guides. A package is $49, a teacher's guide is $9 and a student guide is $1.25.

Source: Water Pollution Control Federation

Contact: Water Pollution Control Federation
601 Wythe Street
Alexandria, Virginia 22314
800-666-0206

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Title: Solid/Hazardous/Toxic Wastes and Recycling - Environmental Education Resource Materials

Grade Level(s): unavailable at press time

Description: unavailable at press time

Notes: unavailable at press time

Source: Wisconsin Department of Natural Resources

Contact: Wisconsin Department of Natural Resources
P.O. Box 7921
Madison, Wisconsin 53707
608-266-6890

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Title: Splash!

Grade Level(s): K - 3

Description: This fun-filled, full-colored booklet allows students to discover water, water treatment,

water cycle and water conservation through easy-to-read text and inter-curriculum activities. Students follow the journey of Sarah Seagull and Fred Fish who discover how water is very important to all of us.

Notes: Splash! is 26 cents each for orders of 10 (minimum) to 1,000 copies. A teachers' guide for Splash! will be available in early 1991.

Sources: The American Water Works Association
6666 W. Quincy Avenue
Denver, Colorado 80235
303-794-7711

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Title: Stop, Look & Learn About Our Natural World

Grade Level(s): K - 6

Description: This is a three-volume series of lesson plans and activity sheets for use in the elementary grades. The 114 separate activities are bound in three-ring plastic binders, cover a wide variety of environmental topics and were adapted from a number of sources. A variety of worksheets may be copied for use in class. Every activity is identified by subject area, objective and grade level. Separate headings identify materials to be used, procedures, background, additional activities and the source from which the material was adapted. The three volumes contain a total of 656 pages. The volumes may be copied.

Source: Nebraska Natural Resources Commission

Contact: Nebraska Natural Resources Commission
P.O. Box 94876
Lincoln, Nebraska 68509-4876
402-471-2081

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Title: Teacher's Notebook - Water Conservation, Rainy and Drippy

Grade Level(s): K - 2

Description: This activity is designed to help students understand the water cycle. It stesses language arts and science. The activity was presented to room parents at the Hill School Water Day

sponsored by the Nebraska Groundwater Foundation and the Lower Platte South Natural Resources District.

Notes: The activity is provided in full in volume five, issue three of The Aquifer, the journal of the Nebraska Groundwater Foundation.

Contact: Nebraska Groundwater Foundation
P.O. Box 2558
Lincoln, Nebraska 68502-0558
402-423-7155

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Title: Teaching Soil and Water Conservation - A Classroom and Field Guide

Grade Level(s): unavailable at press time

Description: unavailable at press time

Notes: unavailable at press time

Source: Soil Conservation Service

Contact: Soil Conservation Service
U.S. Department of Agriculture
Room 5105 South Building
Washington, DC 20250
202-447-4525

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Title: The Story of Drinking Water

Grade Level(s): 4 - 9

Description: This full-color illustrated booklet is an effective and fun way for school-age children to learn about drinking water. It defines water and ground water and describes the natural water cycle. It explains where water is found and how it is treated and distributed. It's full of facts on water usage with lots of tips for water conservation, as well as water pollution.

The student booklets are available in English, Spanish and French.

The Story of Drinking Water - Teacher Guides

The Teacher Guides (Primary, grades 1 - 3, 32 pp.; Intermediate, grades 4 - 6, 46 pp.; and

Advanced, grades 7 -9, 40 pp.) are written to complement The Story of Drinking Water for a more intensive water education program. They make the student book adaptable to any age group. Each guide contains a complete sequence of lessons with teacher plans, reproducible student activity pages, ideas for expanded instruction, and a glossary. The primary and intermediate guides have water-related lessons in science, language, social studies, and math. The advance guide calls for higher thinking skills in science and social studies.

Notes: The student booklets are 26 cents each for orders of 10 (minimum) to 1,000 copies. Teacher guides are $6.50 each.

Classroom packages are available for $11.15 each for between 1 to 25 packages, $10.50 per package for 26 to 100, and $10 each for 101 to 500. Each contains 30 copies of The Story of Drinking Water, with a single copy of the appropriate teacher guide.

Sources: The American Water Works Association

Contact: The American Water Works Association
6666 W. Quincy Avenue
Denver, Colorado 80235
303-794-7711

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Title: Toxics in My Home? You Bet!

Grade Level(s): 7 - 8 and 9 - 12.

Description: Classroom tested activities that meet Michigan science, health and social studies objectives.

Notes: Each module is $12. A rental only video ($3), "Making the Connection Videotape: Teacher's Guide to Household Hazardous Substances and the Classroom," is also available.

Source: The Ecology Center

Contact: The Ecology Center
417 Detroit Street
Ann Arbor, Michigan 48104
313-995-5888

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Title: Use Water Wisely Poster

Grade Level(s): K - 4

Description: This poster promotes wise water use among young children. Fun circus characters teach children in kindergarten through fourth grade how to conserve. Bright colors and playful animals make the learning process exciting and easy. The poster is duplicated in black and white so kids can exercise their creative talents with crayons or markers while reinforcing the conservation message.

Notes: One to 25 copies are $4 each.

Sources: The American Water Works Association

Contact: The American Water Works Association
6666 W. Quincy Avenue
Denver, Colorado 80235
303-794-7711

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Title: Water Conservation

Grade Level(s): Not identified

Description: This appealing 8-page publication teaches youngsters that water is a valuable resource and should be used wisely. Simple text and activities make learning fun.

Notes: 1 to 24 copies are $1 each. 25 to 99 copies are 78 cents each. Catalog number: W54239.

Sources: Channing L. Bete Co., Inc.

Contact: Order Department
Channing L. Bete Co., Inc.
200 State Road
South Deerfield, Massachusetts 01373
1-800-628-7733

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Title: Water Fun for You - Coloring Book

Grade Level(s): Ages 5 - 9

Description: The coloring and game book has drinking water as its theme with crossword puzzles, word games, and coloring fun.

Notes: Ten (minimum) to 1,000 copies are 26 cents each.

Sources: The American Water Works Association

Contact: The American Water Works Association
6666 W. Quincy Avenue
Denver, Colorado 80235
303-794-7711

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Title: Water in Your Hands

Grade Level(s): 9 - 11 year olds

Description: This cartoon booklet takes three characters on an adventure spanning millions of years and covers water issues and facts around the world. Readers explore water quality and supply problems, discover the importance of a sustained supply of high-quality water, and learn how to prevent misuse and pollution of water resources. The teaching guide includes a file folder with three pages of objectives, background information, implementation suggestions, a variety of activities, plus four activity masters. Spanish-language editions are available of both the booklet and the guide.

Notes: The booklets are 75 cents for the first copy with each additional copies up to 99 priced at 25 cents each. Copies 100 through 499 are 18 cents each. A single copy of the teaching guide is $2.

Sources: Soil and Water Conservation Society

Contact: Soil and Water Conservation Society
7515 Northeast Ankeny Road
Ankeny, Iowa 50021-9764
515-289-2331

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Title: Water Literacy Program

Grade Level(s): 4 - 6 and Junior High

Description: Three elementary units, one each for grades 4, 5 and 6 have been developed.

The Great Water Connection - Grade 4

This unit provides students with a general introduction to the nature of water and the water cycle, water as a

resource, water use in Alberta and how all human activities are connected to water.

Water and Landscapes - Grade 5

Alberta's landscape is the product of natural processes and human action on the land surface - both supported by water. This unit explores how water has influenced human use of the land and defined settlement.

Water We Use - Grade 6

The use Albertans put water to affects both how water supply is managed and how water quality is controlled. This unit introduces students to how Albertans use, control, affect and manage the Province's water resources.

Three of the Water Literacy units were written for junior high school students. Below is the description of the unit that relates to ground water.

Water and Agriculture

Assists students to examine the role water plays in agricultural production, the management of water for agriculture, and the effect of agricultural use on water supply and quality. This unit is used in the Agriculture/Land and Life Program, grade 7 and is available through the Learning Resources Distribution Centre, Alberta Education.

Notes: Two Water Literacy Program units were developed for the high school curriculum and implementation dates of the units will be announced later.

Sources: Education Branch
Alberta Environment

Contact: Education Branch
Alberta Environment
9820 - 106 Street
Edmonton, Alberta T5K 2J6
CANADA
403-427-6310

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Title: Water - The Basis of Life

Grade Level(s): not identified

Description: A 15-page "comic book" addressing water and agriculture issues. Water management is a

primary topic, although the publication does explain important water concepts, such as the hydrologic cycle. Water uses and pollution are discussed.

Notes: Produced by Scott Printing Corporation, published by Soil Conservation Society of America.

Contact: Soil Conservation Society of America
7515 Northeast Ankeny Road
Ankeny, Iowa 50021
515-289-2331

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Title: Water Riches

Grade Level(s): 4 - 5

Description: The series consists of five units with accompanying children's newspapers, short videotapes and a teacher guide. Units include: 1) Water: How We Use It; 2) Water: Where It Comes From; 3) Water: Above and Below the Ground; 4) Water: Pollution; and 5) Water Conservation. The teacher's guide outlines objectives and activities for each unit. Students will become aware of water issues through the research, writing, editing, production, and distribution of a newspaper.

Notes: An additional module is being developed for 1991 release for 7th - 9th grades and will deal with water quality.

Sources: 4-H/Youth Department of UNL Extension Service

Contact: Cooperative Extension Service
4-H/Youth Department
University of Nebraska
114 Ag Hall
Lincoln, Nebraska 68583-0700
402-472-2805

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Title: Wetland Education Resource Materials

Grade Level(s): unavailable at press time

Description: unavailable at press time

Notes: unavailable at press time

## Ground Water in America's Schools

Source: Wisconsin Department of Natural Resources

Contact: Wisconsin Department of Natural Resources
P.O. Box 7921
Madison, Wisconsin 53707
608-266-6890

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